

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-7. (Canceled)

8. (Currently Amended) An isolated nucleic acid encoding ~~the~~ a polypeptide comprising an amino acid sequence at least 70% identical to SEQ ID NO:1, wherein the polypeptide is a transporter of an organic cation of claim 1. .

9. (Currently Amended) An isolated nucleic acid encoding a polypeptide comprising the sequence of SEQ ID NO:1 ~~the polypeptide of claim 5.~~

10. (Currently Amended) An isolated nucleic acid encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:1, with up to 30 conservative amino acid substitutions, wherein the polypeptide is a transporter of an organic cation ~~the polypeptide of claim 6.~~

11. (Currently Amended) An isolated nucleic acid comprising a strand that hybridizes under stringent conditions to a single stranded probe, the sequence of which consists of SEQ ID NO:2 ~~any one of SEQ ID NOs:2, 4, 23, or 28,~~ or the complement of SEQ ID NO:2 ~~any one of SEQ ID NOs:2, 4, 23, or 28.~~

12. (Original) The isolated nucleic acid of claim 11, wherein the nucleic acid encodes a polypeptide that is a transporter of an organic cation.

13. (Currently Amended) The nucleic acid of claim 12, wherein the amino acid sequence of the polypeptide comprises SEQ ID NO:1 ~~any one of SEQ ID NOs: 1, 3, 22, or 27.~~

14. (Original) The nucleic acid of claim 11, wherein the strand is at least 15 nucleotides in length.
15. (Currently Amended) The nucleic acid of claim 14, wherein the nucleic acid is an antisense nucleic acid that inhibits expression of a polypeptide comprising SEQ ID NO:1 ~~any one of SEQ ID NOs: 1, 3, 22, or 27.~~
16. (Original) A vector comprising the nucleic acid of claim 8.
17. (Original) A vector comprising the nucleic acid of claim 9.
18. (Original) A vector comprising the nucleic acid of claim 10.
19. (Original) A vector comprising the nucleic acid of claim 11.
20. (Original) A vector comprising the nucleic acid of claim 12.
21. (Original) A cultured host cell comprising the nucleic acid of claim 8.
22. (Original) A cultured host cell comprising the nucleic acid of claim 9.
23. (Original) A cultured host cell comprising the nucleic acid of claim 10.
24. (Original) A cultured host cell comprising the nucleic acid of claim 11.
25. (Original) A cultured host cell comprising the nucleic acid of claim 12.
26. (Original) An antibody that specifically binds to the polypeptide of claim 1.

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Atty. Docket No.: 14875-057002 / C2-906DP1PCT-USD1

Serial No. :

Filed :

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27. (Original) A method of producing a polypeptide, the method comprising isolating the polypeptide from the cultured host cell of claim 21.

28. (Canceled)